

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 3, 2003, 22:48:05 : Search time 21 Seconds
(without alignments)
815.435 Million cell updates/sec

Title: US-09-294-539-4
Perfect score: 2952
Sequence: 1 MEPTSHVTNAFSDSDASV.....RSLGSSSSSTSGAIRPRR 582

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1276	43.2	593	US-08-996-685-2	Sequence 2, Appl1
3	1276	43.2	593	US-08-880-179-3	Sequence 3, Appl1
4	1270	43.0	593	US-08-989-478-8	Sequence 8, Appl1
5	1270	43.0	593	US-08-996-685-8	Sequence 8, Appl1
6	1188.5	40.3	521	US-08-989-478-12	Sequence 12, Appl1
7	1188.5	40.3	521	US-08-996-685-12	Sequence 12, Appl1
8	1134	38.4	469	US-08-989-478-10	Sequence 10, Appl1
9	1134	38.4	469	US-08-996-685-10	Sequence 10, Appl1
10	1052.5	35.7	397	US-08-989-478-14	Sequence 14, Appl1
11	1052.5	35.7	397	US-08-996-685-14	Sequence 14, Appl1
12	751	25.4	261	US-08-989-478-16	Sequence 16, Appl1
13	751	25.4	261	US-08-996-685-16	Sequence 16, Appl1
14	420	14.2	143	US-09-325-932A-197	Sequence 197, App
15	201	6.8	102	US-09-325-932A-199	Sequence 199, App
16	133	4.5	1088	US-09-082-059-2	Sequence 2, Appl1
17	127	4.3	1839	US-09-172-977-4	Sequence 4, Appl1
18	126	4.3	843	US-09-172-977-3	Sequence 3, Appl1
19	124.5	4.2	300	US-08-897-340-32	Sequence 32, Appl1
20	124.5	4.2	300	US-09-252-329-32	Sequence 32, Appl1
21	122	4.1	41	US-08-989-478-17	Sequence 17, Appl1
22	122	4.1	41	US-08-989-478-19	Sequence 19, Appl1
23	122	4.1	41	US-08-989-478-21	Sequence 21, Appl1
24	122	4.1	41	US-08-989-478-23	Sequence 23, Appl1
25	122	4.1	41	US-08-996-685-17	Sequence 17, Appl1
26	122	4.1	41	US-08-996-685-19	Sequence 19, Appl1
27	122	4.1	41	US-08-996-685-21	Sequence 21, Appl1

28	122	4.1	41	US-08-996-685-23	Sequence 23, Appl1
29	122	4.1	41	US-08-880-179-4	Sequence 4, Appl1
30	122	4.1	41	US-08-880-179-6	Sequence 6, Appl1
31	122	4.1	41	US-08-880-179-8	Sequence 8, Appl1
32	122	4.1	41	US-08-880-179-10	Sequence 10, Appl1
33	119.5	4.0	359	US-08-388-756-2	Sequence 2, Appl1
34	119.5	4.0	359	US-08-748-428-2	Sequence 2, Appl1
35	119.5	4.0	359	US-08-802-372-3	Sequence 3, Appl1
36	119.5	4.0	359	US-08-910-830-2	Sequence 2, Appl1
37	119.5	4.0	389	US-08-802-372-14	Sequence 14, Appl1
38	119	4.0	1166	US-09-350-982C-5	Sequence 5, Appl1
39	116	3.9	787	US-09-188-930-334	Sequence 334, App
40	112	3.8	1964	US-09-467-997-1	Sequence 1, Appl1
41	111.5	3.8	356	US-08-903-851-2	Sequence 2, Appl1
42	110.5	3.7	673	US-09-196-387-8	Sequence 8, Appl1
43	110	3.7	292	US-09-605-785-532	Sequence 532, App
44	110	3.7	292	US-09-439-313-532	Sequence 532, App
45	110	3.7	329	US-09-605-785-376	Sequence 376, App

ALIGNMENTS

RESULT 1
US-08-989-478-2
Sequence 2, Application US/08989478
Patent No. 5986082
GENERAL INFORMATION:
APPLICANT: Unes, Scott
APPLICANT: Hunt, Michelle
APPLICANT: Steiner, Henry-York
APPLICANT: Ryals, John
TITLE OF INVENTION: ALTERED FORMS OF THE NIM1 GENE CONFERRING
TITLE OF INVENTION: DISEASE RESISTANCE IN PLANTS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5986082artis Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: No. 5986082th Carolina
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,478
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,177
FILING DATE: 13-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,379
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,382
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,730
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,021
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,022
FILING DATE: 10-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: PF/5-21214/P1/CGC1911

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919) 541-8587

TELEFAX: (919) 541-8689

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 593 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-989-478-2

Query Match 43.2%; Score 1276; DB 2; Length 593;

Best Local Similarity 47.2%; Pred. No. 1.4e-121; Matches 273; Conservative 113; Mismatches 165; Indels 28; Gaps 9;

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 72 -SDGREVSFHRVCLARSSEFFKSALA--AAKREKDSNMTAAVKLELKET---AKDYEG 124
 125 YEALRLVLDYISGRVGDLPKAAACLVDEDCAHVGCHPAVAFMAQVLFPASTFOVAELTN 184
 125 FDSVYTVLAVYVSSRVPRPKGVSECADENCCHVACRAVDPMLLEVLYLAFTFKIPELIT 184
 185 LFQRLLDVLDKVEVDNLLLSVANLCKNSCKMLLERCLDMVAVNSLDMITLEKSLPPD 244
 185 LKVRHLDVAVDVKVEDTLVLTKLANICGKACMKILDRCKEITIVKSNVDMVLEKSLPEE 244
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 361 EGRTALMIKQATMAVECCNNIPEDCKHSLKGRLCVEILLOEDKREQIPDPVPSFVAAD 420
 425 SLGRLLYENRVALARIMPEARVAMDIAVDGTFLENLGSGANPPEER---ORTTV 480
 421 ELKMTLLDENRVALAQRLPTEBAQAMIAEMKGTCEIVTS---LEPDRLLGTRKTSIP 477
 481 DINESPFIKKEHLARMTLSTVELGKRFPFPCSNVLDKIMD-DETPVSLGRDTSAAK 539
 478 GYAIAPFRILEEHQSRKLKSLSTVELGKRFPFPCSAVLQIMNCEDLQIACGEDDTAK 537
 540 R---KRPHDLDVLDKAPHEKKEENDRSGSSSSSTS 574
 538 RLOKKORYMEIDETLKAFSEDLNGLSSLDSTISSTS 576

RESULT 2

US-08-996-685-2

Sequence 2, Application US/08996685

Patent No. 6031153

GENERAL INFORMATION:

APPLICANT: Ryals, John

APPLICANT: Friedrich, Leslie

APPLICANT: Uknes, Scott

APPLICANT: Molina, Antonio

APPLICANT: Ruess, Wilhelm

APPLICANT: Knauf-Belter, Gertrude

APPLICANT: Kung, Ruth

APPLICANT: Kessmann, Helmut

APPLICANT: Oostendorp, Michiel

TITLE OF INVENTION: METHOD FOR PROTECTING PLANTS

NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 6031153artis Corporation

STREET: 3054 Cornwallis Road

CITY: Research Triangle Park

STATE: No. 6031153tn Carolina

COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentln Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/996,685

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/761,543

FILING DATE: 6-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,378

FILING DATE: 27-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,379

FILING DATE: 27-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,382

FILING DATE: 27-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,730

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/035,021

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/035,022

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/035,024

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/875,015

FILING DATE: 16-JUL-1997

ATTORNEY/AGENT INFORMATION:

NAME: Meigs, J. Timothy

REGISTRATION NUMBER: 38,241

REFERENCE/DOCKET NUMBER: PF/5-21215/P1/CGC1912

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919) 541-8587

TELEFAX: (919) 541-8689

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 593 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-996-685-2

Query Match 43.2%; Score 1276; DB 3; Length 593;

Best Local Similarity 47.2%; Pred. No. 1.4e-121;

Matches 273; Conservative 113; Mismatches 165; Indels 28; Gaps 9;

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 65 GGGGDLRVHRCVLSARSPFLRGVAFARRAAAAAGGGGEGDSERLRLRELLGGGGEVEVG 124
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 593 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-996-685-8

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Db 538 RLOKKORYMEIDETLTKAFSEEDNLGLNLSLTDTSSTS 576

RESULT 6
US-08-989-478-12
Sequence 12, Application US/08989478
Patent No. 5986082
GENERAL INFORMATION:
APPLICANT: Unnes, Scott
APPLICANT: Hunt, Michelle
APPLICANT: Steiner, Henry-York
APPLICANT: Ryals, John
TITLE OF INVENTION: ALTERED FORMS OF THE NIM1 GENE CONFERRING
NUMBER OF INVENTION: DISEASE RESISTANCE IN PLANTS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: NO. 5986082arts Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: No. 5986082th Carolina
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COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,478
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,177
FILING DATE: 13-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,379
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,382
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,730
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,021
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,022
FILING DATE: 10-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: PF/5-21214/P1/CGC1911
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 521 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-989-478-12

Query Match      40.3%; Score 1188.5; DB 2; Length 521;
Best Local Similarity 48.0%; Pred. No. 1e-112;
Matches 251; Conservative 100; Mismatches 149; Indels 23; Gaps 7;

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Db 17 TSVVATDNTDSSIVYLAAEQVLTGPVSALQLLSNFESVFDSPD--FYSDAKLV--- 71
OY 65 GCGGGLRVHRCVLSARSPFLRCVFARAAAGGCGEDGSERLRELLGGGEEVWG 124
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Db 72 -SDGREVSFHRCLVSARSFFKSA--AAKKKDSNNNTAAVLEKEI---AKDYEW 124
OY 125 YEALRLVLDYLYSGRGVGLPKAACLCVDEDCAHVGHCPAFAAQLVFAASTFOVALTN 184
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 125 FDSVVTVLAVVYSSRVPRPKGVSECADENCHVACRPADFMLEVLYLAFFIKIPELIT 184
OY 185 LFQRLLDVLADKVEVNDLLITLVANLCKSCMKLLERCLDVVRNSLDMITLKSLEPPD 244
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 185 LVQRHLDDVADKVIIDTVILKLANICGACMKLLDRCKEITVKSNDVMSLEKSLPEE 244
OY 245 VIKOIIDARLSGLISPEKNGFPNKHVRIRHRLSDSDVELVRLTEGOTINDDAFALH 304
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 245 LKKEIIDRKEKLEVPKPKK---KHVSNNHAKLSDSDIELVLLKEDHTNLDACALH 300
OY 305 YAVEHCDSKITTELDLADLVNHRNPRGTYVLIHAAARRREPKIIVSLTKGARPDVTF 364
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 301 FAVAYCNVATATDLKLDLADLVNHRNPRGTYVLIHAAARRREPKIIVSLTKGARPDVTF 360
OY 365 DGRKAVQISKRLTKGDDYGVTEEGKPSPKDRCLCEILQAEERDPQLGEASVSLMAGE 424
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Db 361 EGRFALMIKQATMAVECNINPEQCHSLKGRCLVEILBQEDKREDIPRPVPSFAVAD 420
 425 SLRGILLIENRYALRIMPEMEARVAMDAQVDTLEENLGSANPPPER---ORTTY 480
 421 ELKMTLLDENRYALQORLFEPEAOAMEIAEMKGTCEFIYTS---LEPDRLTGTRTSP 477
 QY 481 DINESPFIKKEHLARMTALSKTVELGKRPFRCSNVLDKIMD 523
 Db 478 GVAIAFPRIIEHOSRLKALSKTVELGKRPFRCSNAVLDQIMN 520
 RESULT 7
 US-08-996-685-12
 Sequence 12, Application US/08996685
 Patent No. 6031153
 GENERAL INFORMATION:
 APPLICANT: Ryals, John
 APPLICANT: Friedrich, Leslie
 APPLICANT: Uknes, Scott
 APPLICANT: Molina, Antonio
 APPLICANT: Ruess, Wilhelm
 APPLICANT: Knauf-Belter, Gertrude
 APPLICANT: Kunz, Ruth
 APPLICANT: Kessmann, Helmut
 APPLICANT: Oostendorp, Michael
 TITLE OF INVENTION: METHOD FOR PROTECTING PLANTS
 NUMBER OF SEQUENCES: 32
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. 6031153artis Corporation
 STREET: 3054 Cornwallis Road
 CITY: Research Triangle Park
 STATE: No. 6031153th Carolina
 COUNTRY: USA
 ZIP: 27709
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,685
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/761,543
 FILING DATE: 6-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,378
 FILING DATE: 27-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,379
 FILING DATE: 27-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,382
 FILING DATE: 27-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,730
 FILING DATE: 10-JAN-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/035,021
 FILING DATE: 10-JAN-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/035,022
 FILING DATE: 10-JAN-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/035,024
 FILING DATE: 10-JAN-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/875,015
 FILING DATE: 16-JUL-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Meigs, J. Timothy

; REGISTRATION NUMBER: 38, 241
 ; REFERENCE/DOCKET NUMBER: PF/5-21215/P1/CGC1912
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (919) 541-8587
 ; TELEFAX: (919) 541-8689
 ; INFORMATION FOR SEQ ID NO: 12:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 521 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-996-685-12
 Query Match 40.3%; Score 1188.5; DB 3; Length 521;
 Best Local Similarity 48.0%; Pred. No. 1e-112;
 Matches 251; Conservative 100; Mismatches 149; Indels 23; Gaps 7;
 QY 5 TSHVINAFSDSASVEEGDADADADVEALRLRLSDMLAAFRSPEDFAFLADARLAVPG 64
 Db 17 TSFVATDNTDSSIVYLAEGVILGPVSAQLQLSNFSFSDPD--FYSDAKLV--- 71
 QY 65 GGGGDIHVRHCVLSARSPPPLRGVFRARAAAAAGGCGEDSERLLELLGGGEVEYG 124
 Db 72 -SDGREVSEHRCVLSARSSFFKSALA--AAKKEDSNNTAAVLELKEI---AKDYEVG 124
 QY 125 YEALRLVLYLVSGRVGDLPKACLCVDEDCAHVGHGPAVAFPAQVLPFASTFOVAVELTN 184
 Db 125 FDSVAVTLAVYSSRVRRPPPKGVSECDENKCHVACRPADVEFLVLAFTIRKIPBELIT 184
 QY 185 LFQRLDLVDKVEVNNLLISVANLCNCSKMLERCLDVMVVRNLDITLTKSLPPD 244
 Db 185 LYGRHLDDVDKVIEDTLVILKLANICGKACKMLDRCKEIVKSNVMDVSLKSLPEE 244
 QY 245 VIKQITDARLSGLISPENKGFPPKHVRRHRLDSDDVLYVMLLTGEGTINDDFALH 304
 Db 245 LVKEIIRREKEGLEVPKVK---KHSVNVKALDSDDIELVLLKEDHTINDACALH 300
 QY 305 YAVEHCDSKITTELDLADLVNHRNPRGYTVLHIAARREPKTIYSLTKGARPADVTE 364
 Db 301 FAVAICVKTATDLKLDLADLVNHRNPRGYTVLHIAARREPKTIYSLTKGARPADVTE 360
 QY 365 DGRKAVQISKRLTKODYGVTEEGKPSPKRLCIELBOAERRDPOLGASVSLAMAGE 424
 Db 361 EGRFALMIKQATMAVECNINPEQCHSLKGRCLVEILBQEDKREDIPRPVPSFAVAD 420
 QY 425 SLRGILLIENRYALRIMPEMEARVAMDAQVDTLEENLGSANPPPER---ORTTY 480
 Db 421 ELKMTLLDENRYALQORLFEPEAOAMEIAEMKGTCEFIYTS---LEPDRLTGTRTSP 477
 QY 481 DINESPFIKKEHLARMTALSKTVELGKRPFRCSNVLDKIMD 523
 Db 478 GVAIAFPRIIEHOSRLKALSKTVELGKRPFRCSNAVLDQIMN 520
 RESULT 8
 US-08-989-478-10
 Sequence 10, Application US/08989478
 Patent No. 5986082
 GENERAL INFORMATION:
 APPLICANT: Uknes, Scott
 APPLICANT: Hunt, Michelle
 APPLICANT: Steiner, Henry-York
 APPLICANT: Ryals, John
 TITLE OF INVENTION: ALTERED FORMS OF THE NIM1 GENE CONFERRING
 DISEASE RESISTANCE IN PLANTS
 NUMBER OF SEQUENCES: 32
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. 5986082artis Corporation
 STREET: 3054 Cornwallis Road
 CITY: Research Triangle Park
 STATE: No. 5986082th Carolina
 COUNTRY: USA
 ZIP: 27709

SEQUENCE CHARACTERISTICS:

LENGTH: 469 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-996-685-10

Query Match 38.4%; Score 1134; DB 3; Length 469;
 Best Local Similarity 51.4%; Pred. No. 3, 2e-107;
 Matches 233; Conservative 89; Mismatches 115; Indels 16; Gaps 5;

131 VLDYLSGRVGLDLPKACICVDDECAHVGCHRAVAVMAQVLPRASTFOVAELTNLFQRL 190
 7 VLAVYSSRRVPRPKGVSECDADNCCHVACRPVADMELVLAIFKIPELITLYQRHL 66
 191 LDVLDKVEVDNLLILSVANLCKSCMKLLERCLDMVNSNDMTLEKSLPPDVTKQII 250
 67 LDVVDKVIYEDTLVILKLANICGKACMKLLDRCKEIIIVKSNVDMVSLKSLPELVKEII 126
 251 DARLSGLISPEKGFPPNKHVRIRHRLSDSDVLEVRMLLTGQTNLDDAFALHVAVEHC 310
 127 DRKKEIGLEVPKV---KHVSNVHKAALSDSDIELVKLLKEDHTNLDACALHFAVAYC 182
 311 DSKITTELDLADLVNHRNPRGYTLVHTAARRREKTIIVSLTTCARPADVTFDGRKAV 370
 183 NVATATDCLKLDADVNNRPRGYTLVHVAAMKEPOLILSTLEKASASEATLEGRAL 242
 371 QISKRLTKGDYGVTEEGKPSKDRCLCIEILQEARPDLQGEASVSLAMAGESLGRGL 430
 243 MIKQATMAVACNNIPQCHSLKGRCLVLEQEDKREQIPRDVPSFVADELKMTL 302
 431 LVLENRVALARIMPEARVAMDAQVDTLEFNLSGANGPPEP---ORTVVDLINESP 486
 303 LDLENRVALAQRLEPPEAQAMAEIAEKGCETIVS---LEPDRILGTKRISPGVKIAP 359
 487 FIMKEHLARMTALSKTVELGKRRFPFPCSNVLDKIND-DETPVSLGRTSAKR---K 541
 360 FRILEHQSRLKALSKTVELGKRRFPFPCSAVLDQIMNCEDTLQAGEDDTAERLQKKQ 419
 542 RFHLDQVLOKAFHEKKEENDRSGLSSSSSSTS 574
 420 RYMEIDETLKAFSEDMLELGNLSLTDSTSTS 452

RESULT 10

US-08-989-478-14

Sequence 14, Application US/08989478

Patent No. 5986082

GENERAL INFORMATION:

APPLICANT: Utnes, Scott

APPLICANT: Hunt, Michelle

APPLICANT: Steiner, Henry-York

APPLICANT: Ryals, John

TITLE OF INVENTION: ALTERED FORMS OF THE NIMI GENE CONFERRING

NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESSES:

ADDRESSEE: No. 5986082artis Corporation

STREET: 3054 Cornwallis Road

CITY: Research Triangle Park

STATE: No. 5986082th Carolina

COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/989,478

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/033,177
 FILING DATE: 13-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,379
 FILING DATE: 27-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,382
 FILING DATE: 27-DEC-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/034,730
 FILING DATE: 10-JAN-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/035,021
 FILING DATE: 10-JAN-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/035,022
 FILING DATE: 10-JAN-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Meigs, J. Timothy
 REGISTRATION NUMBER: 38,241
 REFERENCE/DOCKET NUMBER: PF/5-21214/P1/CGC1911
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (919) 541-8587
 TELEFAX: (919) 541-8689
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 397 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-989-478-14

Query Match 35.7%; Score 1052.5; DB 2; Length 397;
 Best Local Similarity 53.4%; Pred. No. 5, 3e-99;
 Matches 212; Conservative 76; Mismatches 98; Indels 11; Gaps 3;

131 VLDYLSGRVGLDLPKACICVDDECAHVGCHRAVAVMAQVLPRASTFOVAELTNLFQRL 190
 7 VLAVYSSRRVPRPKGVSECDADNCCHVACRPVADMELVLAIFKIPELITLYQRHL 66
 191 LDVLDKVEVDNLLILSVANLCKSCMKLLERCLDMVNSNDMTLEKSLPPDVTKQII 250
 67 LDVVDKVIYEDTLVILKLANICGKACMKLLDRCKEIIIVKSNVDMVSLKSLPELVKEII 126
 251 DARLSGLISPEKGFPPNKHVRIRHRLSDSDVLEVRMLLTGQTNLDDAFALHVAVEHC 310
 127 DRKKEIGLEVPKV---KHVSNVHKAALSDSDIELVKLLKEDHTNLDACALHFAVAYC 182
 311 DSKITTELDLADLVNHRNPRGYTLVHTAARRREKTIIVSLTTCARPADVTFDGRKAV 370
 183 NVATATDCLKLDADVNNRPRGYTLVHVAAMKEPOLILSTLEKASASEATLEGRAL 242
 371 QISKRLTKGDYGVTEEGKPSKDRCLCIEILQEARPDLQGEASVSLAMAGESLGRGL 430
 243 MIKQATMAVACNNIPQCHSLKGRCLVLEQEDKREQIPRDVPSFVADELKMTL 302
 431 LVLENRVALARIMPEARVAMDAQVDTLEFNLSGANGPPEP---ORTVVDLINESP 486
 303 LDLENRVALAQRLEPPEAQAMAEIAEKGCETIVS---LEPDRILGTKRISPGVKIAP 359
 487 FIMKEHLARMTALSKTVELGKRRFPFPCSNVLDKIND 523
 360 FRILEHQSRLKALSKTVELGKRRFPFPCSAVLDQIMN 396

RESULT 11

US-08-996-685-14

Sequence 14, Application US/08996685

Patent No. 6031153

GENERAL INFORMATION:

APPLICANT: Ryals, John

APPLICANT: Friedrich, Leslie

APPLICANT: Utnes, Scott

APPLICANT: Molina, Antonio
APPLICANT: Ruess, Wilhelm
APPLICANT: Ruess-Belter, Gertrude
APPLICANT: Kung, Ruth
APPLICANT: Kessmann, Helmut
APPLICANT: Oostendorp, Michael
TITLE OF INVENTION: METHOD FOR PROTECTING PLANTS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6031153artis Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: No. 6031153th Carolina
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,685
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/761,543
FILING DATE: 6-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,378
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,379
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,382
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,730
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,021
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,022
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,024
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/875,015
FILING DATE: 16-JUL-1997
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38, 241
REFERENCE/DOCKET NUMBER: PF/5-21215/P1/CGC1912
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8587
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 397 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-996-685-14

Query Match 35.7%: Score 1052.5; DB 3; Length 397;
Best Local Similarity 53.4%; Pred. No. 5.3e-99;
Matches 212; Conservative 76; Mismatches 98; Indels 11; Gaps 3;

QY 131 VLDYLSGVRGDLPRKAACTCDEDCAHVCGHPAVAFMAQVLFPASTFOVAELTNLFQRRL 190
DB 7 VLAVYSSNRPRPKGVSCADENCCHVACRPAVDEMLVLAIFKIPELITLQRRHL 66

QY 191 LDVLDKEVDNLLILSVANLCKNSCKMLLERCLDWMVRSNLDMTLEKSLPPDVIKOII 250
DB 67 LDVYDKVVEDTLVILKLANICKKACMKLLDRCKELTVSNNDMSLESLPELVKEII 126
QY 251 DARLSGLISPEKNGFPHKVRIRHRALDSDVVELVRLMTEGOTNLDDAFALHVAVEHC 310
DB 127 DRKKELEVPKVK----KHVSVMKALDSDDEIVKLLKEDHTLDDACALHFVAVAC 182
QY 311 DSKITTELDLADVNHNPNRGYTVLHIAARRREKTIIVSLTKCARPADVTEDGRKAV 370
DB 183 NKXTADLLKLDLADVNNRPNRGYTVLHVAAMRKEPOLITLSLEKGSASEATLEGRAL 242
QY 371 QISKRLTKGDFGVTEEGKPSPKRDLCEIIEQARRPQGEASVSLAMGESLRGL 430
DB 243 MIAKQNTMAVECCNIPEDCKHSLKGRCLVEILQEDKREQIPRDVPPSFVAVALDKMTL 302
QY 431 LYLENVALARIMFPMEARVAMDIAQVDTLEFNLSGANPPER---QRTVDLNESP 486
DB 303 LDLENVALAQRFPTEQAAMEIAEMKGTCEIYVS---LEPRDLTGTKRISPGVKIAP 359
QY 487 FIMKEEHLARMTALSKTVELGKRFPFPCSNVLDKIMD 523
DB 360 FRIEEHOSRLKALSKTVELGKRFPFPCSAVLDQIMN 396

RESULT 12
US-08-989-478-16
Sequence 16, Application US/08989478
Patent No. 5986082
GENERAL INFORMATION:
APPLICANT: uknes, Scott
APPLICANT: Hunt, Michelle
APPLICANT: Steiner, Henry-York
APPLICANT: Ryals, John
TITLE OF INVENTION: ALTERED FORMS OF THE NIM1 GENE CONFERRING
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5986082artis Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: No. 5986082th Carolina
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,478
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,177
FILING DATE: 13-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,379
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,382
FILING DATE: 27-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/034,730
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,021
FILING DATE: 10-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,022
FILING DATE: 10-JAN-1997
ATTORNEY/AGENT INFORMATION:

NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38, 241
REFERENCE/DOCKET NUMBER: PF/5-21214/P1/CGC1911
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8589

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:
LENGTH: 261 amino acids

TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-989-478-16

Query Match 25.4% Score 751; DB 2; Length 261;
Best Local Similarity 54.6%; Pred. No. 1.8e-68;

Matches 142; Conservative 54; Mismatches 56; Indels 8; Gaps 2;

QY 107 RLEARELLGGGEVEVGYEALRLVLDYLSGRVGDLPRAACLCVDEDCAHGCHPAVAF 166

Db 10 KLELKEI-----AKDYEVGDSVYTVLAYVSSRVRPPKGVSECADENCCHVACRPADV 65

QY 167 MGVLEFASTFOVAELTNFORRLDVLKVEVDNLLILSVANLCNKSCKMLLEKCLDM 226

Db 66 MLEVLYLAFIFKIPFLITYQRLLDVVKVYEDTLVILKLANIGKAKMKLDRCKEI 125

QY 227 VVRNIDMTLEKSLPPDYIKQIIDARLSGLISPNKGFPPKHVRIRALDSDVELY 286

Db 126 IYKSNVDWMSLEKSLPEELVKELIDRKELGLEVPVK-----KHVSNVKAALDSDIELY 181

QY 287 RMLTEGQTNLDPAFLAHAVEHCDKRTTELLDLALADVNRHNPGRGYVLIHAAARRRP 346

Db 182 KLLKEDHTNLDACALHFAVACNVKATDILKLDLADVNRHNPGRGYVLIHAAARRRP 241

QY 347 KIIVSLITKGARADVTDFG 366

Db 242 QLLSLLEKASASEATLEG 261

RESULT 13

US-08-996-685-16

Sequence 16, Application US/08996685

Patent No. 6031153

GENERAL INFORMATION:

APPLICANT: Ryals, John

APPLICANT: Friedrich, Leslie

APPLICANT: Uknes, Scott

APPLICANT: Molina, Antonio

APPLICANT: Ruess, Wilhelm

APPLICANT: Knauf-Belter, Gertrude

APPLICANT: Kung, Ruth

APPLICANT: Kessmann, Helmut

APPLICANT: Oostendorp, Michael

TITLE OF INVENTION: METHOD FOR PROTECTING PLANTS

NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 6031153artis Corporation

STREET: 3054 Cornwallis Road

CITY: Research Triangle Park

STATE: No. 6031153th Carolina

COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/996,685

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/761,543

FILING DATE: 6-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,378

FILING DATE: 27-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,379

FILING DATE: 27-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,382

FILING DATE: 27-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/034,730

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/035,022

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/035,024

FILING DATE: 10-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/875,015

FILING DATE: 16-JUL-1997

ATTORNEY/AGENT INFORMATION:

NAME: Meigs, J. Timothy

REGISTRATION NUMBER: 38, 241

REFERENCE/DOCKET NUMBER: PF/5-21215/P1/CGC1912

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919) 541-8587

TELEFAX: (919) 541-8589

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 261 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-996-685-16

Query Match 25.4% Score 751; DB 3; Length 261;
Best Local Similarity 54.6%; Pred. No. 1.8e-68;

Matches 142; Conservative 54; Mismatches 56; Indels 8; Gaps 2;

QY 107 RLEARELLGGGEVEVGYEALRLVLDYLSGRVGDLPRAACLCVDEDCAHGCHPAVAF 166

Db 10 KLELKEI-----AKDYEVGDSVYTVLAYVSSRVRPPKGVSECADENCCHVACRPADV 65

QY 167 MGVLEFASTFOVAELTNFORRLDVLKVEVDNLLILSVANLCNKSCKMLLEKCLDM 226

Db 66 MLEVLYLAFIFKIPFLITYQRLLDVVKVYEDTLVILKLANIGKAKMKLDRCKEI 125

QY 227 VVRNIDMTLEKSLPPDYIKQIIDARLSGLISPNKGFPPKHVRIRALDSDVELY 286

Db 126 IYKSNVDWMSLEKSLPEELVKELIDRKELGLEVPVK-----KHVSNVKAALDSDIELY 181

QY 287 RMLTEGQTNLDPAFLAHAVEHCDKRTTELLDLALADVNRHNPGRGYVLIHAAARRRP 346

Db 182 KLLKEDHTNLDACALHFAVACNVKATDILKLDLADVNRHNPGRGYVLIHAAARRRP 241

QY 347 KIIVSLITKGARADVTDFG 366

Db 242 QLLSLLEKASASEATLEG 261

RESULT 14

US-09-325-932A-197

Sequence 197, Application US/09325932A

Patent No. 6451604

GENERAL INFORMATION:

APPLICANT: Flinn, Barry

APPLICANT: Lasham, Annette

TITLE OF INVENTION: Compositions affecting programmed cell

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 3, 2003, 22:51:17 : Search time 16 seconds
(without alignments)
689.362 Million cell updates/sec

Title: US-09-294-539-4

Perfect score: 2952

Sequence: 1 MEPTSHVTNFAFSDSDASV.....RSLGSSSSSSISIAIRPR 582

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 117078 seqs, 18951520 residues

Total number of hits satisfying chosen parameters: 117078

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCRT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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- 9: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1672.5	56.7	588	8 US-08-908-884-14	Sequence 14, Appl
2	1672.5	56.7	588	10 US-09-908-323-14	Sequence 14, Appl
3	1276	43.2	593	8 US-08-908-884-3	Sequence 3, Appl
4	1276	43.2	593	10 US-09-908-323-3	Sequence 3, Appl
5	1276	43.2	593	12 US-10-079-035-3	Sequence 3, Appl
6	1045.5	35.4	592	9 US-10-047-593-2	Sequence 2, Appl
7	1045.5	35.4	592	9 US-10-047-593-4	Sequence 4, Appl
8	168	5.7	49	8 US-08-908-884-4	Sequence 4, Appl
9	168	5.7	49	10 US-09-908-323-4	Sequence 4, Appl
10	122	4.1	41	12 US-10-079-035-4	Sequence 4, Appl
11	122	4.1	41	12 US-10-079-035-6	Sequence 6, Appl
12	122	4.1	41	12 US-10-079-035-8	Sequence 8, Appl
13	122	4.1	41	12 US-10-079-035-10	Sequence 10, Appl
14	121	4.1	33	8 US-08-908-884-8	Sequence 8, Appl
15	121	4.1	33	10 US-09-908-323-8	Sequence 8, Appl
16	119.5	4.0	359	9 US-09-844-988-2	Sequence 2, Appl
17	119.5	4.0	359	9 US-09-844-908-2	Sequence 2, Appl
18	114.5	3.9	1074	10 US-09-509-196A-2	Sequence 2, Appl
19	114	3.9	210	9 US-09-924-400-331	Sequence 331, App

20	114	3.9	210	10 US-09-810-936-331	Sequence 331, App
21	113	3.8	33	8 US-08-908-884-9	Sequence 9, Appl
22	113	3.8	33	10 US-09-908-323-9	Sequence 9, Appl
23	113	3.8	384	9 US-09-924-400-340	Sequence 340, App
24	112.5	3.8	329	10 US-09-880-192-62	Sequence 62, Appl
25	112.5	3.8	329	10 US-09-758-593A-1	Sequence 1, Appl
26	110.5	3.7	673	10 US-09-841-835-8	Sequence 8, Appl
27	110.5	3.7	1724	9 US-09-964-899-43	Sequence 43, Appl
28	110	3.7	292	9 US-09-924-400-315	Sequence 315, App
29	110	3.7	292	9 US-10-012-896-532	Sequence 532, App
30	110	3.7	292	9 US-09-895-793-532	Sequence 532, App
31	110	3.7	292	9 US-09-895-814-532	Sequence 532, App
32	110	3.7	292	10 US-09-825-101-4	Sequence 4, Appl
33	110	3.7	292	10 US-09-759-143-532	Sequence 532, App
34	110	3.7	292	10 US-09-760-669-532	Sequence 532, App
35	110	3.7	292	10 US-09-810-936-315	Sequence 315, App
36	110	3.7	292	10 US-09-822-827-532	Sequence 532, App
37	110	3.7	292	10 US-09-429-755-315	Sequence 315, App
38	110	3.7	329	9 US-09-924-400-299	Sequence 299, App
39	110	3.7	329	9 US-10-012-896-376	Sequence 376, App
40	110	3.7	329	9 US-09-895-793-376	Sequence 376, App
41	110	3.7	329	9 US-09-895-814-376	Sequence 376, App
42	110	3.7	329	10 US-09-825-101-2	Sequence 2, Appl
43	110	3.7	329	10 US-09-759-143-376	Sequence 376, App
44	110	3.7	329	10 US-09-780-669-376	Sequence 376, App
45	110	3.7	329	10 US-09-810-936-299	Sequence 299, App

ALIGNMENTS

RESULT 1
US-08-908-884-14
; Sequence 14, Application US/08908884
; Patent No. US2002013872A1
; GENERAL INFORMATION:
; APPLICANT: Dong et al.
; TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/908, 884
; FILING DATE:
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/023,851
; FILING DATE: August 9, 1996
; APPLICATION NUMBER: 60/035,166
; FILING DATE: January 10, 1997
; APPLICATION NUMBER: 60/046,769
; FILING DATE: May 16, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Elbing, Karen L
; REGISTRATION NUMBER: 35,238
; REFERENCE/DOCKET NUMBER: 00786/339004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-428-0200
; TELEFAX: 617-428-7045
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 588 amino acids
; TYPE: amino acid


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Patent No. US20020138872A1
GENERAL INFORMATION:
APPLICANT: Dong et al.
TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESS: Clark & Elbling LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/908,884
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023,851
FILING DATE: August 9, 1996
APPLICATION NUMBER: 60/035,166
FILING DATE: January 10, 1997
APPLICATION NUMBER: 60/046,769
FILING DATE: May 16, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Elbling, Karen L.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/339004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 593 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-908-884-3

Query Match          43.2%; Score 1276; DB 8; Length 593;
Best Local Similarity 47.2%; Pred. No. 3.7e-98;
Matches 273; Conservative 113; Mismatches 165; Indels 28; Gaps 9;
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Db 361 EGRALMIKQATMAVACNNIPQCKHSLKGRCLVEILQEDKREQIPROVPSFAVAD 420
QY 425 SLRGILLYENRVALRIMPEARVAMDIAYDGTLEFNLSGANGPPER---ORTTV 480
Db 421 ELKMTLLDENRVALQRLPTEQAAMEIAEMKGCFTIVS---LEPRLTGFTRTSP 477
QY 481 DUNESPFIKKEHLARMTALSKTVELGKRPFRCSNVLDKIMD-DEMDPVSLGRDPSAEK 539
Db 478 GVAIAPFRILIEHQSRKALSTVELGKRPFRCSNVLDIMCEDJLQLAGCEDDTAEK 537
QY 540 R---KRFHLDQVLOKAFHEKENDRSGLSSSSSSTS 574
Db 538 RLCKQRMEIQETLKKAFSEDLNLELGNSSLTSTSTSTS 576

RESULT 4
US-09-908-323-3
Sequence 3, Application US/09908323
Patent No. US20020073447A1
GENERAL INFORMATION:
APPLICANT: Dong et al.
TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESS: Clark & Elbling LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/908,323
FILING DATE: 17-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/908,884
FILING DATE: <Unknown>
APPLICATION NUMBER: 60/035,166
FILING DATE: January 10, 1997
APPLICATION NUMBER: 60/046,769
FILING DATE: May 16, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Elbling, Karen L.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/339004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 593 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-908-323-3

Query Match          43.2%; Score 1276; DB 10; Length 593;
Best Local Similarity 47.2%; Pred. No. 3.7e-98;
Matches 273; Conservative 113; Mismatches 165; Indels 28; Gaps 9;
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SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/908,884
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023,851
FILING DATE: August 9, 1996
APPLICATION NUMBER: 60/035,166
FILING DATE: January 10, 1997
APPLICATION NUMBER: 60/046,769
FILING DATE: May 16, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Elbing, Karen L.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/339004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-908-884-4

Query Match 5.7%; Score 168; DB 8; Length 49;
Best Local Similarity 61.2%; Pred. No. 1.2e-07;
Matches 30; Conservative 11; Mismatches 8; Indels 0; Gaps 0;

QY 327 NHRNPGYTVLHIAARRRREPKTIYSLTKGAPADVTGDKRAVQISKR 375
DB 1 NHRNPGYTVLHVAAMRKEPOLILSLKGSASASEATLEGRALMIAKQ 49

RESULT 9
US-09-908-323-4
Sequence 4, Application US/09908323
Patent No. US20020073447A1
GENERAL INFORMATION:
APPLICANT: Dong et al.
TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Clark & Elbing LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/908,323
FILING DATE: 17-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/908,884
FILING DATE: <Unknown>
APPLICATION NUMBER: 60/035,166
FILING DATE: January 10, 1997
APPLICATION NUMBER: 60/046,769
FILING DATE: May 16, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Elbing, Karen L.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/339004
TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-908-323-4

Query Match 5.7%; Score 168; DB 10; Length 49;
Best Local Similarity 61.2%; Pred. No. 1.2e-07;
Matches 30; Conservative 11; Mismatches 8; Indels 0; Gaps 0;

QY 327 NHRNPGYTVLHIAARRRREPKTIYSLTKGAPADVTGDKRAVQISKR 375
DB 1 NHRNPGYTVLHVAAMRKEPOLILSLKGSASASEATLEGRALMIAKQ 49

RESULT 10
US-10-079-035-4
Sequence 4, Application US/10079035
Patent No. US20020152499A1
GENERAL INFORMATION:
APPLICANT: Ryals, John
APPLICANT: Delaney, Terry
APPLICANT: Friedrich, Leslie
APPLICANT: Weymann, Kristanna
APPLICANT: Lawton, Kay
APPLICANT: Ellis, Daniel
APPLICANT: Knes, Scott
APPLICANT: Jesse, Jaco
APPLICANT: Vos, Pieter
TITLE OF INVENTION: GENE ENCODING A PROTEIN INVOLVED IN THE
TITLE OF INVENTION: SIGNAL TRANSDUCTION CASCADE LEADING TO SYSTEMIC ACQUIRED RE
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. US20020152499A1artis Corporation
STREET: 520 White Plains Road, P.O. Box 2005
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/079,035
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/577,799
FILING DATE:
APPLICATION NUMBER: 08/880,179
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC 1909
TELECOMMUNICATION INFORMATION:-
TELEPHONE: (919) 541-8687
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 41 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant

APPLICANT: Delaney, Terry
APPLICANT: Friedrich, Leslie
APPLICANT: Weymann, Kristanna
APPLICANT: Lawton, Kay
APPLICANT: Ellis, Daniel
APPLICANT: Unnes, Scott
APPLICANT: Jesse, Taco
APPLICANT: Vos, Pieter
TITLE OF INVENTION: GENE ENCODING A PROTEIN INVOLVED IN THE
TITLE OF INVENTION: SIGNAL TRANSDUCTION CASCADE LEADING TO SYSTEMIC ACQUIRED RESIS
TITLE OF INVENTION: IN PLANTS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESSES:
ADDRESSEE: No. US20020152499A Iarlis Corporation
STREET: 520 White Plains Road, P.O. Box 2005
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/079,035
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/577,799
FILING DATE:
APPLICATION NUMBER: 08/860,179
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC 1909
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 41 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide
US-10-079-035-10
Query Match 4.1%; Score 122; DB 12; Length 41;
Best Local Similarity 51.2%; Pred. No. 0.0006; 8; Indels 0; Gaps 0;
Matches 21; Conservative 12; Mismatches 8; Indels 0; Gaps 0;
QY 271 VRIHRLDSDVDELVRLMTEGQTNIDDAFAHAYVEHCD 311
DB 1 IRRMRRLDADIELVRLMVGESLDDLDALVAVYVGHCH 41
RESULT 14
US-08-908-884-8
Sequence 8, Application US/08908884
Patent No. US20020138872A1
GENERAL INFORMATION:
APPLICANT: Dong et al.
TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Clark & Elbing LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/908,884
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023,851
FILING DATE: August 9, 1996
APPLICATION NUMBER: 60/035,166
FILING DATE: January 10, 1997
APPLICATION NUMBER: 60/046,769
FILING DATE: May 16, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Elbing, Karen L.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/339004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-428-7045
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-908-884-8
Query Match 4.1%; Score 121; DB 8; Length 33;
Best Local Similarity 68.8%; Pred. No. 0.00053;
Matches 22; Conservative 5; Mismatches 5; Indels 0; Gaps 0;
QY 269 KHVRIHRLDSDVDELVRLMTEGQTNIDDA 300
DB 1 KHVSNVHRLDSDIELVRLMLLEKEDHTNIDDA 32
RESULT 15
US-09-908-323-8
Sequence 8, Application US/09908323
Patent No. US20020073447A1
GENERAL INFORMATION:
APPLICANT: Dong et al.
TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Clark & Elbing LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/908,323
FILING DATE: 17-Jul-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/908,884
FILING DATE: <unknown>
APPLICATION NUMBER: 60/035,166
FILING DATE: January 10, 1997
APPLICATION NUMBER: 60/046,769
FILING DATE: May 16, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Elbing, Karen L.

```

;
; REGISTRATION NUMBER: 35,238
; REFERENCE/DOCKET NUMBER: 00786/339004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-428-0200
; TELEFAX: 617-428-7045
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 33 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-908-323-8

Query Match      4 1%; Score 121; DB 10; Length 33;
Best Local Similarity 68.8%; Pred. No. 0.00053;
Matches 22; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

Qy 269 KHVRIIRALSDSDDELVRMLLTCGOTNLDDA 300
    ||| :|||:||||:||||| | |||||
Db 1 KHVSNVHKALSDSDIELVKLLKEDHTNLDDA 32

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Search completed: January 3, 2003, 22:54:37
 Job time : 18 secs

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